

Combining Labeled and Unlabeled Data with Co-Training

(1998) (Make Corrections) (180 citations)

Avrim Blum, Tom Mitchell

COLT: Proceedings of the Workshop on Computational Learning Theory, Morgan Kaufmann Publishers

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Abstract: We consider the problem of using a large unlabeled sample to boost performance of a learning algorithm when only a small set of labeled examples is available. In particular, we consider a problem setting motivated by the task of learning to classify web pages, in which the description of each example can be partitioned into two distinct views. For example, the description of a web page can be partitioned into the words occurring on that page, and the words occurring in hyperlinks that point to... ([Update](#))

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A Benchmark Dataset for Audio Classification and.. - Homburg, Mierswa.. (2005) ([Correct](#))

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Journal of Machine Learning Research 3 (2003) 1183-1208.. - Ron Bekkerman Ronb ([Correct](#))

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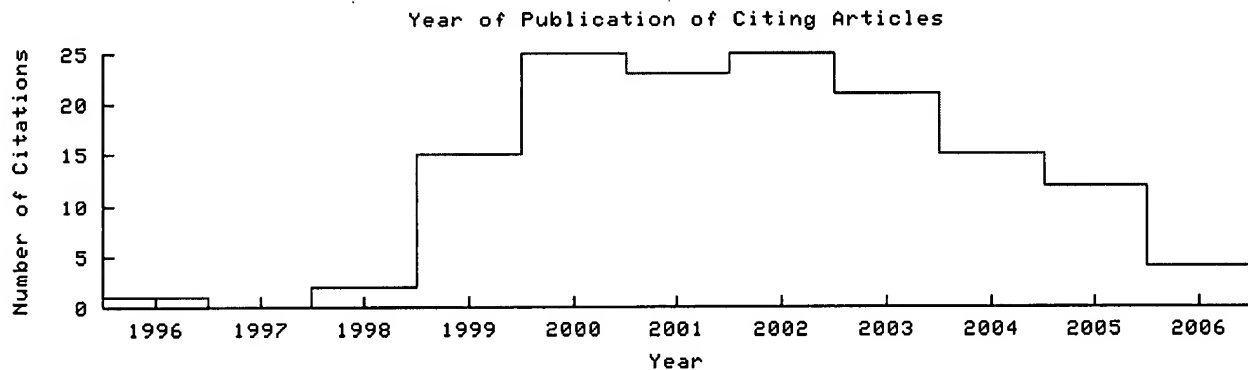
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When applying text classification to complex tasks, it is tedious and expensive to hand-label the large amounts of training data necessary for good performance. This paper presents an alternative approach to text classification that requires no labeled documents; instead, it uses a small set of keywords per class, a class hierarchy and a large quantity of easily obtained

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